

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A servo signal inspecting apparatus to inspect a recorded state of a servo signal with a reproducing head with a smaller width than a width of a servo track, the apparatus comprising:

a magnetic tape driving unit running a magnetic tape;

a reproducing head inspecting a servo signal recorded on said magnetic tape; and

a head controlling unit controlling said reproducing head so as to vibrate in a range of width of said servo track in a width direction of said magnetic tape.

2. (original): A servo signal inspecting apparatus according to claim 1, wherein a plurality of said reproducing heads are provided at a predetermined interval for one said servo track; and

wherein said plurality of reproducing heads are made to vibrate all together in a range of width of said servo track by said head controlling unit.

3. (original): A servo signal inspecting apparatus according to claim 1, which comprises a head guide assembly guiding a magnetic tape in a floated state off a guide surface by blowing air from said guide surface with which a surface of said magnetic tape is guided.

4. (original): A servo signal inspecting apparatus according to claim 2, which comprises a head guide assembly guiding a magnetic tape in a floated state off a guide surface by blowing air from said guide surface with which a surface of said magnetic tape is guided.

5. (original): A servo signal inspecting system comprising:
a servo signal inspecting apparatus according to claim 1; and
an analysis unit analyzing whether or not defects exist in servo signals based on signals read with a reproducing head.

6. (original): A servo signal inspecting system comprising:
a servo signal inspecting apparatus according to claim 2; and
an analysis unit analyzing whether or not defects exist in servo signals based on signals read with a reproducing head.

7. (original): A servo signal inspecting system comprising:
a servo signal inspecting apparatus according to claim 3; and
an analysis unit analyzing whether or not defects exist in servo signals based on signals read with a reproducing head.

8. (original): A servo signal inspecting system comprising:
a servo signal inspecting apparatus according to claim 4; and
an analysis unit analyzing whether or not defects exist in servo signals based on signals read with a reproducing head.

9. (original): A servo signal inspecting system according to claim 5, wherein said analysis unit memorizes data obtained from normally recorded servo signals as standard data in

advance and compares the standard data with data in inspection, thereby finding defects of servo signals.

10. (original): A servo signal inspecting system according to claim 6, wherein said analysis unit memorizes data obtained from normally recorded servo signals as standard data in advance and compares the standard data with data in inspection, thereby finding defects of servo signals.

11. (original): A servo signal inspecting system according to claim 7, wherein said analysis unit memorizes data obtained from normally recorded servo signals as standard data in advance and compares the standard data with data in inspection, thereby finding defects of servo signals.

12. (original): A servo signal inspecting system according to claim 8, wherein said analysis unit memorizes data obtained from normally recorded servo signals as standard data in advance and compares the standard data with data in inspection, thereby finding defects of servo signals.

13. (original): A servo signal inspecting method to inspect a recorded state of servo signals with a reproducing head with a smaller width than a width of a servo track, the method comprising the steps of:

running a magnetic tape and vibrating said reproducing head in a range
of width of said servo track in a width direction of said magnetic tape, and
inspecting servo signals recorded on said magnetic tape.

14. (original): A servo signal inspecting method according to claim 13, which comprises an analyzing step to analyze whether or not defects exist in servo signals based on signals read with said reproducing head.

15. (original): A servo signal inspecting method according to claim 13, the method comprising the steps of:

a standard data recording step memorizing data obtained from normally recorded servo signals as standard data in advance; and

a comparing step comparing the standard data with data in inspection.

16. (previously presented): The servo signal inspecting apparatus of claim 1, wherein the head controlling unit vibrates the reproducing head towards upward and downward directions alternately in a width-wise direction of the tape.

17. (previously presented): The servo signal inspecting apparatus of claim 2, wherein the head controlling unit vibrates the reproducing head towards upward and downward directions alternately in a width-wise direction of the tape.

18. (previously presented): The servo signal inspecting apparatus of claim 16, wherein the controlling unit vibrates the reproducing head alternately as the tape is conveyed in a single direction.

19. (previously presented): The servo signal inspecting apparatus of claim 17, wherein the controlling unit vibrates the reproducing head alternately as the tape is conveyed in a single direction.

20. (new): The apparatus of claim 2, wherein the range of the width of the servo track comprises at least an edge to edge range in the width direction of the servo track, wherein the plurality of reproducing heads collectively vibrate in the edge to edge range.

21. (new): The method of claim 13, wherein the reproducing head includes a plurality of recording heads for one servo track, and wherein the range of width of the servo track comprises at least an edge to edge range in the width direction of the servo track, the plurality of reproducing heads collectively vibrating in at least an edge to edge range in the width direction of the servo track.